

CIRCUIT FOR PROVIDING RESISTANCE TO SINGLE EVENT
UPSET TO PULSE WIDTH MODULATOR INTEGRATED CIRCUIT

ABSTRACT OF THE DISCLOSURE

A circuit for use with a pulse width modulated integrated circuit having a soft-start reset function comprising a diode having a first terminal connected to a soft-start reset terminal of the integrated circuit, a voltage divider coupled between a voltage reference and a common terminal for the integrated circuit, the diode having a second terminal coupled to a tap of the voltage divider and a soft-start capacitor coupled between the second terminal of the diode and the common terminal whereby upon power startup of the integrated circuit, the soft-start capacitor is charged by the tap of the voltage divider and wherein in the event of a single event upset condition, when the soft-start reset terminal of the integrated circuit is reduced to a level at or near the level of the common terminal of the integrated circuit, the diode prevents the soft-start capacitor from discharging through the integrated circuit.